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CINDERS FROM THE ORES OF THE NIKOLAEV
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[v. 7, no. 3] p. 243-245.

DESCRIPTORS: *Drugs, *Anesthetics, Inhibition,
Respiration, *Phosphorylation, *Absorption, *Oxygen,
Synthesis, Phosphates, *Procaine.

The effects were studied of the more commonly used
local anesthetics (novocaine, cocaine, dicalne, anes-
thesine, eovcaine, mesocaine and xylocaine) on the
process of respiratory phosphorylation. These anes-
thetics to a considerable degree disrupt or inhibit
respiration and phosphorylation, reducing not only the
absorption of oxygen, but also the synthesis of mineral
phosphate.

(Biological Sciences--Pharmacology, TT, v. 8, no. 6)

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DESCRIPTORS: *Alkaloids, Drugs, Pharmacology,
*Respiration, *Brain, Inhibition, Tissues (Biology),
Cells (Biology), Oxidation, Flavins, Enzymes.

Addition of cocaine to the cerebral pulp of rats causes a
decrease in oxygen consumption at the expense of oxida-
tion of endogenic substrata as well as upon addition of
glucose, lactic and pyruvic acids. Addition of malic
acid decreases oxygen consumption to a lesser
degree. Glycolysis is not impaired. The dehydrogenase
activity in the brain is considerably inhibited by cocaine.
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1. Cocaine
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DESCRIPTORS: *Wind, *Structures, *Snow, Design,
Operation, Effectiveness.

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